

## WE CLAIM:

1. A cylinder head structure for an internal combustion engine that is disposed on the upper surface of a cylinder body in which a plurality of cylinders are arranged in the lengthwise direction thereof, and that has an exhaust port, an intake port and a fuel injector mounting hole for each of the cylinders, wherein

said exhaust port is opened, at its one end, in a combustion chamber formed under the lower surface of said cylinder head and is opened, at its other end, on the side of one side surface of said cylinder head in parallel with the lengthwise direction thereof,

said intake port is opened, at its one end, in said combustion chamber and is opened, at its other end, on the side of the other side surface of said cylinder head in parallel with the lengthwise direction thereof,

said fuel injector mounting hole is provided on the lower side of said intake port nearly in parallel with said intake port, is opened, at its one end, in said combustion chamber and is opened, at its other end, on the side of the other side surface of said cylinder head in parallel with the lengthwise direction thereof,

a boss for bolt hole on the exhaust port side and a boss for bolt hole on the intake port side, each having a bolt hole for inserting a cylinder head bolt, are provided between the exhaust ports and between the intake ports of the neighboring cylinders,

a partitioning wall is formed for coupling said boss for bolt hole on the exhaust port side to said boss for bolt hole on the intake port side, and for sectionalizing the cooling water chamber for each of the cylinders, and

a cooling water jacket is formed along the other side surface in which said fuel injector mounting holes are formed, and is communicated with said cooling water chambers;

characterized in that

said boss for bolt hole on the intake port side is provided with guide portions that guide the cooling water flowing into the cooling water chamber to the side of the  
5 fuel injector mounting hole from the exhaust port side.

2. A cylinder head structure for an internal combustion engine according to claim 1, wherein said cooling water jacket is so provided as to pass on the underside of the fuel injector  
10 mounting holes.